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APR 01 2002

TECH CENTER 1600/2900



OIPE

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/058,422

DATE: 02/19/2002

TIME: 11:06:43

Input Set : A:\pa01128.ST25.txt

Output Set: N:\CRF3\02192002\J058422.raw

ENTERED

4 <110> APPLICANT: Hyeyoung Lee, Hye Eun Bang, Sang-Nae Cho, Gill-Han BAI,  
 5 Sang-Jae Kim  
 7 <120> TITLE OF INVENTION: A method for identifying Micobacteria tuberculosis and  
 8 non-tuberculosis Micobacteria, together with detecting resistance  
 9 to an antituberculosis drug of Micobacteria obtained by mutation  
 10 of rpoB gene  
 12 <130> FILE REFERENCE: 0217-0008  
 C--> 14 <140> CURRENT APPLICATION NUMBER: US/10/058,422  
 C--> 14 <141> CURRENT FILING DATE: 2002-01-30  
 14 <160> NUMBER OF SEQ ID NOS: 30  
 16 <170> SOFTWARE: KopatentIn 1.71  
 18 <210> SEQ ID NO: 1  
 19 <211> LENGTH: 25  
 20 <212> TYPE: DNA  
 21 <213> ORGANISM: Artificial Sequence  
 23 <220> FEATURE:  
 24 <223> OTHER INFORMATION: MOTT-rpo-long-B-5' primer for PCR amplification of rpoB gene  
 27 <400> SEQUENCE: 1  
 28 tcaaggagaa ggcgtacgac ctggc  
 31 <210> SEQ ID NO: 2  
 32 <211> LENGTH: 24  
 33 <212> TYPE: DNA  
 34 <213> ORGANISM: Artificial Sequence  
 36 <220> FEATURE:  
 37 <223> OTHER INFORMATION: TR8-long-NB-3' primer for PCR amplification of rpoB gene  
 40 <400> SEQUENCE: 2  
 41 acgggtgcac gtcgcggacc tcca  
 44 <210> SEQ ID NO: 3  
 45 <211> LENGTH: 20  
 46 <212> TYPE: DNA  
 47 <213> ORGANISM: Artificial Sequence  
 49 <220> FEATURE:  
 50 <223> OTHER INFORMATION: Oligomer probe for all types of Mycobacteria  
 53 <400> SEQUENCE: 3  
 54 gacgtcgtcg ccaccatcga  
 57 <210> SEQ ID NO: 4  
 58 <211> LENGTH: 15  
 59 <212> TYPE: DNA  
 60 <213> ORGANISM: Artificial Sequence  
 62 <220> FEATURE:  
 63 <223> OTHER INFORMATION: Oligomer probe for M. tuberculosis complex  
 66 <400> SEQUENCE: 4  
 67 catgtcggcg agccc

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70 <210> SEQ ID NO: 5
71 <211> LENGTH: 19
72 <212> TYPE: DNA
73 <213> ORGANISM: Artificial Sequence
75 <220> FEATURE:
76 <223> OTHER INFORMATION: Oligomer probe for M. avium
79 <400> SEQUENCE: 5
80 aaacggtgag ccgatcacc
83 <210> SEQ ID NO: 6
84 <211> LENGTH: 18
85 <212> TYPE: DNA
86 <213> ORGANISM: Artificial Sequence
88 <220> FEATURE:
89 <223> OTHER INFORMATION: Oligomer probe for M. intracellulareae
92 <400> SEQUENCE: 6
93 aaacctgcac gcgggcga
96 <210> SEQ ID NO: 7
97 <211> LENGTH: 21
98 <212> TYPE: DNA
99 <213> ORGANISM: Artificial Sequence
101 <220> FEATURE:
102 <223> OTHER INFORMATION: Oligomer probe for M. scrofulaceum
105 <400> SEQUENCE: 7
106 aaaaacgtac ggatggccag c
109 <210> SEQ ID NO: 8
110 <211> LENGTH: 19
111 <212> TYPE: DNA
112 <213> ORGANISM: Artificial Sequence
114 <220> FEATURE:
115 <223> OTHER INFORMATION: Oligomer probe for M. kansasii type I + V
118 <400> SEQUENCE: 8
119 aaaggccacg atgaccgtg
122 <210> SEQ ID NO: 9
123 <211> LENGTH: 21
124 <212> TYPE: DNA
125 <213> ORGANISM: Artificial Sequence
127 <220> FEATURE:
128 <223> OTHER INFORMATION: Oligomer probe for M. kansasii type II + III + IV
131 <400> SEQUENCE: 9
132 aaaaatctca ggatggccag c
135 <210> SEQ ID NO: 10
136 <211> LENGTH: 21
137 <212> TYPE: DNA
138 <213> ORGANISM: Artificial Sequence
140 <220> FEATURE:
141 <223> OTHER INFORMATION: Oligomer probe for M. gastris
144 <400> SEQUENCE: 10
145 aaaaatctca gggatggccag g
148 <210> SEQ ID NO: 11

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149 <211> LENGTH: 16
150 <212> TYPE: DNA
151 <213> ORGANISM: Artificial Sequence
153 <220> FEATURE:
154 <223> OTHER INFORMATION: Oligomer probe for M. fortuitum complex
157 <400> SEQUENCE: 11
158 cctgaacgcc gccag
161 <210> SEQ ID NO: 12
162 <211> LENGTH: 16
163 <212> TYPE: DNA
164 <213> ORGANISM: Artificial Sequence
166 <220> FEATURE:
167 <223> OTHER INFORMATION: Oligomer probe for M. peregrinum
170 <400> SEQUENCE: 12
171 gttccggtcg aggtgg
174 <210> SEQ ID NO: 13
175 <211> LENGTH: 20
176 <212> TYPE: DNA
177 <213> ORGANISM: Artificial Sequence
179 <220> FEATURE:
180 <223> OTHER INFORMATION: Oligomer probe for M. chelonae
183 <400> SEQUENCE: 13
184 aaatggtgac tgccaccacg
187 <210> SEQ ID NO: 14
188 <211> LENGTH: 20
189 <212> TYPE: DNA
190 <213> ORGANISM: Artificial Sequence
192 <220> FEATURE:
193 <223> OTHER INFORMATION: Oligomer probe for M. abscesus
196 <400> SEQUENCE: 14
197 aaaaggtgac caccaccacc
200 <210> SEQ ID NO: 15
201 <211> LENGTH: 15
202 <212> TYPE: DNA
203 <213> ORGANISM: Artificial Sequence
205 <220> FEATURE:
206 <223> OTHER INFORMATION: Oligomer probe for M. ulcerans
209 <400> SEQUENCE: 15
210 gccagccca tcacc
213 <210> SEQ ID NO: 16
214 <211> LENGTH: 16
215 <212> TYPE: DNA
216 <213> ORGANISM: Artificial Sequence
218 <220> FEATURE:
219 <223> OTHER INFORMATION: Oligomer probe for M. genavense/M. simiae
222 <400> SEQUENCE: 16
223 ccagccgacg atgacg
226 <210> SEQ ID NO: 17
227 <211> LENGTH: 19

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228 <212> TYPE: DNA
229 <213> ORGANISM: Artificial Sequence
231 <220> FEATURE:
232 <223> OTHER INFORMATION: Oligomer probe for M. gordonae type I, III, IV
235 <400> SEQUENCE: 17
236 aaagtcggcg atccgatca
239 <210> SEQ ID NO: 18
240 <211> LENGTH: 19
241 <212> TYPE: DNA
242 <213> ORGANISM: Artificial Sequence
244 <220> FEATURE:
245 <223> OTHER INFORMATION: Oligomer probe for M. gordonae type II
248 <400> SEQUENCE: 18
249 aaaaacgtcg gcaagccga
252 <210> SEQ ID NO: 19
253 <211> LENGTH: 19
254 <212> TYPE: DNA
255 <213> ORGANISM: Artificial Sequence
257 <220> FEATURE:
258 <223> OTHER INFORMATION: Oligomer probe for M. szulgai
261 <400> SEQUENCE: 19
262 aaatctgaac gtcggcgag
265 <210> SEQ ID NO: 20
266 <211> LENGTH: 19
267 <212> TYPE: DNA
268 <213> ORGANISM: Artificial Sequence
270 <220> FEATURE:
271 <223> OTHER INFORMATION: Oligomer probe for M. terrae
274 <400> SEQUENCE: 20
275 aaagctcagg acggtcagt
278 <210> SEQ ID NO: 21
279 <211> LENGTH: 18
280 <212> TYPE: DNA
281 <213> ORGANISM: Artificial Sequence
283 <220> FEATURE:
284 <223> OTHER INFORMATION: Oligomer probe for Wild Type 509-514
287 <400> SEQUENCE: 21
288 aaccagctga gccaatc
291 <210> SEQ ID NO: 22
292 <211> LENGTH: 18
293 <212> TYPE: DNA
294 <213> ORGANISM: Artificial Sequence
296 <220> FEATURE:
297 <223> OTHER INFORMATION: Oligomer probe for M. Wild Type 515-520
300 <400> SEQUENCE: 22
301 atggaccaga acaacccg
304 <210> SEQ ID NO: 23
305 <211> LENGTH: 18
306 <212> TYPE: DNA

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307 <213> ORGANISM: Artificial Sequence
309 <220> FEATURE:
310 <223> OTHER INFORMATION: Oligomer probe for Wild Type 521-525
313 <400> SEQUENCE: 23
314 aaactgtcgg ggttgacc 18
317 <210> SEQ ID NO: 24
318 <211> LENGTH: 18
319 <212> TYPE: DNA
320 <213> ORGANISM: Artificial Sequence
322 <220> FEATURE:
323 <223> OTHER INFORMATION: Oligomer probe for Wild Type 524-529
326 <400> SEQUENCE: 24
327 ttgaccacaca agcgccga 18
330 <210> SEQ ID NO: 25
331 <211> LENGTH: 16
332 <212> TYPE: DNA
333 <213> ORGANISM: Artificial Sequence
335 <220> FEATURE:
336 <223> OTHER INFORMATION: Oligomer probe for Wild Type 530-534
339 <400> SEQUENCE: 25
340 ctgtcggcgc tggggc 16
343 <210> SEQ ID NO: 26
344 <211> LENGTH: 16
345 <212> TYPE: DNA
346 <213> ORGANISM: Artificial Sequence
348 <220> FEATURE:
349 <223> OTHER INFORMATION: Oligomer probe for Mutant Type 531TTG
352 <400> SEQUENCE: 26
353 ctgttgccgc tggggc 16
356 <210> SEQ ID NO: 27
357 <211> LENGTH: 18
358 <212> TYPE: DNA
359 <213> ORGANISM: Artificial Sequence
361 <220> FEATURE:
362 <223> OTHER INFORMATION: Oligomer probe for Mutant Type 526 AAC
365 <400> SEQUENCE: 27
366 aaaaccaaca agcgccga 18
369 <210> SEQ ID NO: 28
370 <211> LENGTH: 19
371 <212> TYPE: DNA
372 <213> ORGANISM: Artificial Sequence
374 <220> FEATURE:
375 <223> OTHER INFORMATION: Oligomer probe for Mutant Type 516 GTC
378 <400> SEQUENCE: 28
379 aatggtccag aacaaccg 19
382 <210> SEQ ID NO: 29
383 <211> LENGTH: 18
384 <212> TYPE: DNA
385 <213> ORGANISM: Artificial Sequence

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VERIFICATION SUMMARY

PATENT APPLICATION: US/10/058,422

DATE: 02/19/2002

TIME: 11:06:44

Input Set : A:\pa01128.ST25.txt

Output Set: N:\CRF3\02192002\J058422.raw

L:14 M:270 C: Current Application Number differs, Replaced Current Application No  
L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date